RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

Application Serial Number: 08/852,7495 PECEIVED

Art Unit / Team No.: 0/PE FEB 2 6 1990

Date Processed by STIC: 2/10/99 MATRICUSTOMES

THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.

PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,
- 2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY

THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.

IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:

ARTI SHAH 703-308-4212

RAW SEQUENCE LISTING PATENT APPLICATION US/08/852,495

DATE: 02/10/98 TIME: 14:13:05

INPUT SET: S23368.raw

This Raw Listing contains the General Information Section and those Sequences containing ERRORS.

#4 7.R. 03/10/98 (N.E.)

1			SEQUENCE LISTING	•				
2	(1)		Corrected Diskette Needed					
3 4	(1) G	eneral Information:		Soffected Piot Commis				
5	(i)	APPLICANT: Ruddy, Dav	id A	Ulskett Ply				
6	(+)	Wolff, Rog	er K.	ABBUST NOBLES				
7		worll, nog		-de Q				
8	(ii)	TITLE OF INVENTION: P	OLYMORPHISMS IN THE I	REGION OF THE HUMAN $\frac{f}{2a}$				
9	` ,	HEMOCHROMATOSIS	GENE					
10								
11	(iii)	NUMBER OF SEQUENCES:	24					
12								
13	(iv)	CORRESPONDENCE ADDRES						
14			END and TOWNSEND and					
15		(B) STREET: Two Emba		Floor				
16		(C) CITY: San Franci	sco					
17		(D) STATE: CA		RECEIVED				
18		(E) COUNTRY: USA		Wishington Manager MY Manager				
19		(F) ZIP: 94111						
20 21	(**)	COMPUTER READABLE FOR	м.	FEB 2.6 1998				
22	(•)	(A) MEDIUM TYPE: Flo						
23		(B) COMPUTER: IBM PC						
24		(C) OPERATING SYSTEM						
25		(D) SOFTWARE: Patent						
26		(-,						
27	(vi)	CURRENT APPLICATION D	ATA:					
28		(A) APPLICATION NUMB	ER: US 08/852,495					
29		(B) FILING DATE: 07-	MAY-1997					
30		(C) CLASSIFICATION:	435					
31								
32	(Vii)	PRIOR APPLICATION DAT						
33		(A) APPLICATION NUMB	ER: US 08/724,394					
34		(B) FILING DATE: 01-	OCT-1996 4	(a) beauty with				
35		(C) CLASSIFICATION:	- do hot me so	WILL PRIOR ARP PATA:				
36		DOTOD ADDITIONATION DAM		luctuality wider (VII) PRIOR APP. PATA:				
37	(V11)	PRIOR APPLICATION DAT						
38 39		(A) APPLICATION NUMB: (B) FILING DATE: 23-1	•					
40		(C) CLASSIFICATION:						
41		CLASSIFICATION:						
42	(vii)	PRIOR APPLICATION DATA	Δ:					
43	(* * *)	(A) APPLICATION NUMB						
44		(B) FILING DATE: 04-	· · · · · · · · · · · · · · · · · · ·					
45		(C) CLASSIFICATION:						

RAW SEQUENCE LISTING PATENT APPLICATION US/08/852,495

DATE: 02/10/98 TIME: 14:13:07

INPUT SET: S23368.raw

46 47

ERRORED SEQUENCES FOLLOW:

	48	(2) INFORM	ATION FOR SE	EQ ID NO:1:					
	49								
	50	(i) SI	EQUENCE CHAP	RACTERISTIC	S:				
	51	• •	(A) LENGTH:	235033 base	e pairs				
	52		(B) TYPE: nu		- F				
	53		· •		1				
			(C) STRANDEI	_	re				
	54	1	(D) TOPOLOGY	: linear					
	55								
	56								
	57								
	58								
	59								
	60	/ i \ C1	DOLLENION DING	DIDETON. CI	EO TO NO.1.				
		(XI) SI	EQUENCE DESC	ERIPTION: SI	FÕ ID MO:I:				
	61								
	62	CACACACACA	CACACACACA	CACACACACA	CACACAAATG	AGGTATATAA	AGGGTCTCCT	60	
	63								
	64	AAAATGTCAT	CTGATATTTG	TTATTTCATA	TTCTCAGATT	TTTAATCCAT	TTAGGTAGGT	120	
	65							~ ^	ise.
>	66	СТАТТТТАСА	TAGCCTTGTC	TCAAACACAC	CTGGGACCTG	ATCACTCAAA	ATGAGCTCAC	(180)	humera
	67	CIMILITAGE	1400011010	IGHANCAGAG	C1000ACC10	nightionnii	nightorono		<i>CD</i> .
_		a.aa	1 M G 1 1 1 G 1 G G	CAMMMOA CA C	1 mm (1 a a a a a a	> C > > C M > > >	mamamma a a m	Orazo	hot
>	68	CAGAAGAAAA	ATCAAACAGG	CATTTCAGAG	ATTGAGGCCA	AGAAGTTAAA	TGTCTTAAAT	OK 240	hot
	69								litter
	70	GGGCAGAGCT	TAGCTGCTTG	ATGTGAAAAG	AGACCAGCGT	GGCTGGAACA	GCAAAGGAGA	300	200
	71								\hat{a}
	72	ACAGCAGAAG	AGGTGAACAG	AGGCCAGAGA	TGGTCACTGA	GTGGGCCCTT	AAGTCATGGT	360	
	73								
	74	ΔΑΘΘΑΘΤΑΤΘ	GAGAATGAAT	ТАТТССАТСТ	ΔΤΤΩΔΔΤΔΤΩ	тасстсасст	GACTCACAGA	420	
	75	AMOOMOTATO	ONOMNIONNI	IMIIOCHICI	ATTOMATATO	INCOTOROUT	0.101011011011	120	
		ma ammmaa am	mmama a a a a m	annaanna ma	maggaagmga	a s amamms a s		480	
	76	TACTTTGGAT	TTGTAGAGAT	GAAGGAAATG	TAGCAAGTGA	CACTCTTAGA	ATGTTGATTT	400	
	77								
	78	GAGTAAATGG	TAGTGTCAGT	TATTGAACTG	GGGAGAACTG	GAAGGGATAA	CAGGCTTAAG	540	
	79								
	80	GAGCACGTTT	ATTCCTGTGT	CTTGGAAGTG	TTTAGGGTGA	AAGACCTATT	AGAGTTCTAA	600	
	81							\sim	
>	82	АТССАСАТСТ	CAAGTGAAAA	ТСТСССТАСА	САСАТТТССА	ΤΤΤΤΓΛΩΔΔΔΔ Δ	AAGGTCAGGC	(660)	
	83	NIGONONIOI	CHIGIONNAN	IGIGGCIACA	CACALITOCA	IIICHGAAAA	nnoolonooc		
_		maasas mams)		1 m 1 G 1 m 1 G m G	mmmaa	ma cma mmoa m	0K 720	
>	84	TGGAGATGTA	AAATTGGAAG	TTTACTGCAT	ATAGATAGTC	TTTGGAACCG	TAGTATTGAT	UK 720	
	85								
	86	GAAGCCATTA	ATGAGACAGA	ACAAAGACTA	GGGACCAGAG	CCAAGCTCCA	AGTTTCTAAA	780	
	87								
	88	ATTTAGAGGA	TAGTATAGTC	TGGTCATTTT	GAGGTGAATA	CTTAATAACA	GAACAATTTG	840	
	89								
	90	ппс з з спсп з	AATTTAGAGC	COM A CA COMMO	та остопово а о	TIATITE A A CONN	пасассавае	900	
		TIGAAGTGTA	MALLIAGAGC	CCTACACTTT	TAGCTCTGAC	IMIIAACGAA	TACAGGAAAG	200	
	91								
	92	AATGGATATG	GTTATCTGCC	TGGTGTCTGT	GAAATAATTT	AAGCCAGGAA	GAGATCCTCA	960	

The ever open thousant Sequeree I.

Due de rije; orly slin page
show or a sample.

PAGÉ: 150

7935

RAW SEQUENCE LISTING PATENT APPLICATION US/08/852,495

DATE: 02/10/98 TIME: 14:18:52

	7884	TTATCAAAGG	TAAACAGTTA	TTAATCCTAT	ACCAAGATGT		INPUT SET: S23 TACTTTTGGA	
	7885							
	7886 7887	ACACAAGGAA	TTCTCTGGGA	GTCCTTACTA	CTCTCAAGCC	CAGTGAAAAA	GTTAATGAAA	234780
	7888 7889	AACTATAGTA	CCTTCCTATA	AGCTGGATGA	CTAATTACCA	GGCTCATTTA	GGAATTTGCC	234840
>	7890	TTACCAAGTA	AAACATAAGG	GCAGCTGAGG	TGCTGACTGA	AGACAAATGG	AGCATAGAAT	234960
>	7891 7892	ААСАСТАСТА	AAGAATGCCA	AAAATCCTCT	САТСТАТССА	TTCACAAAG	GAGCTATAAA	234960
	7893	AAGAGIAGIA	ANGAN I GOCA	nanai GC 1 G 1	CAIGIAICOA	IIONOMANO	GNGCINIANN	234700
	7894	GCCTTTAGGT	ATTTTCACAC	TTGCTCTGTT	ACGTAAATGT	ATGTGTGTGT	GTGTGTGTGT	235020
	7895							
	7896	GTGTGTGTGT	GTG					235033
	7897							
	7898 7899	(2) INFORMA	ATION FOR SI	EQ ID NO:2:				
	7900	(i) SE	CHAP CHAP	RACTERISTIC	٥.			
	7901			237326 bas				
	7902			cleic acid	c pulls		a and	2 mess
	7903			ONESS: sing	le	enno	The	•
	7904		D) TOPOLOGY			•	sel-	seme
	7905	·	•				(,	_
	7906						. Loud	ming Roy
	7907					,	post - ross - exterior	, , , , ,
	7908					,	of well	elle
	7909					•		
	7910	(xi) SE	EQUENCE DESC	CRIPTION: S	EQ ID NO:2:			
	7911							
	7912	CACACACACA	CACACACACA	CACACACACA	CACAAATGAG	GTATATAAAG	GGTCTCCTAA	60
	7913							100
	7914	AATGTCATCT	GATATTTGTT	ATTTCATATT	CTCAGATTTT	TAATCCATTT	AGGTAGGTCT	120
	7915		~~~~~~~~			a1 ama1 1 1 1 m	a	100
	7916 7917	ATTTTAGATA	GCCTTGTCTG	AAACAGAGCT	GGGACCTGAT	GAGTGAAAAT	GAGCTCACCA	180
	7917	CAACAAAA#	CAAACACCCA	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	TGAGGCCAAG	አ አ ረጥጥ አ አ አጥረ	ጥርጣጥል እ አጥርር	240
	7919	UNAMAMAAI	CARACAGGCA	IIICAGAGAT	IGAGGCCAAG	DIMMALLONA	ICIIAAAIGG	240
	7920	GCAGAGCTTA	ССТССТТС АТ	GTGAAAGAG	ACCAGCGTGG	CTGGAACAGC	AAAGGAGAAC	300
	7921	••••••		-101				
	7922	AGCAGAAGAG	GTGAACAGAG	GCCAGAGATG	GTCACTGAGT	GGGCCCTTAA	GTCATGGTAA	360
	7923							•
	7924	GGAGTATGGA	GAATGAATTA	TTGCATGTAT	TGAATATGTA	GGTGACGTGA	CTCACAGATA	420
	7925							
	7926	CTTTGGATTT	GTAGAGATGA	AGGAAATGTA	GCAAGTGACA	CTCTTAGAAT	GTTGATTTGA	480
	7927							
	7928	GTAAATGGTA	GTGTCAGTTA	TTGAACTGGG	GAGAACTGGA	AGGGATAACA	GGCTTAAGGA	540
	7929							
	7930	GCACGTTTAT	TCCTGTGTCT	TGGAAGTGTT	TAGGGTGAAA	GACCTATTAG	AGTTCTAAAT	600
	7931							
	7932 7933	GGAGATGTCA	AGTGAAAATG	TGGCTACACA	CATTTGCATT	TCAGAAAAA	GGTCAGGCTG	660
	7934 7935	GAGATGTAAA	ATTGGAAGTT	TACTGCATAT	AGATAGTCTT	TGGAACCGTA	GTATTGATGA	720

PAGĚ: 241

RAW SEQUENCE LISTING PATENT APPLICATION US/08/852,495

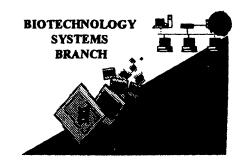
DATE: 02/10/98 TIME: 14:22:12

						i	INPUT SET: S2	3368.raw	
	12706	AAATGGCCAG	TATGCACATG	AAAAGATTTT	AAACATCATT	AGTTACTAGG	GAAATGCAAG	143880	
	12707 12708	TCAAAACCAC	AATGAGATAC	TTCACATTCA	ACAGAATAGC	TAATGTTAAA	AGGACTGACA	143940	
	12709 12710	ATCCCCAGGG	TGAGCAAGGG	TGTGGAGGAA	ACTACTCTCA	TATATTGTGA	ATGTAAGAGG	144000	
	12711 12712	CATTTTATGA	TATAACTGAA	TTCAGTTTTA	TGTATAACTG	AATTACGGAT	ATGAGAATCT	144060	
	12713	CAAATGAGGA	CGAATGGTTT	TTACGCACAA	AACATGAGAC	ACAAATCTGT	AAGAAATATA	144120	
	12715	AAGTCGTGAC	CACGTCCTTT	CAGAACTTTA	ACCTGTTTGC	TGAAGTACGT	CAGTAACAAT	144180	
	12717 12718 12719	GGCAGGGAAA	GGGTATCTTA	AATTTCACCA	CAGCCTCAAA	GAGGCCATTT	CGTGGATCCG	144240	
	12720 12721	CTGAGGCTTG	GAGTCGGCCT	TCTGACCACG	AGTCCTGCGG	CTATGAAAGA	GGAAGCCGCG	144300	
	12722	GTTCAGGGCG	TCCTCGCGAG	TCGCGCAGCC	CGCCCTGCTC	CAGCTGGGGA	CACAGGTGGT	144360	
	12724 12725	CACGGCGCTT	TCCAGCTGCA	GATCCAGGCG	GCAGCCCAAG	ATTTGGTCCA	GCCGCCAAGG	144420	
	12726 12727	GGTGGCTCGA	GTGACTGACG	GGCCTTGAAC	GCTCCCAGGA	CCCACATCTG	GAGAGGGAGG	144480	
	12728 12729	TGGGGGTGGG	GTGCTGAAGT	CATTCTTGGG	GCCCCTGGGG	GCGGGCATGG	ACCTGGGTAA	144540	
	12730 12731		ATTGACACCT						
	12732		GATACCGCCT						
	12734		GCCGGGCATC						
	12736 12737 12738		ATTCACATAC TAATGACCAA						
	12739 12740		TCATGCCTTT						
	12741 12742		AGAGATTAAT						
>	12743 12744		ATATAAATTA					/	7/45020
	12745 12746	TTGTGCCTGA	ACACCTTACA	AGAACCAGGG	ACTATTGCCC	CAATATTATA	TTTCAGGAAA	(145180	5/45080
	12747 12748	GGAAGGCCCA	GACAAATGGT	GTCACTGGTC	CACTTTCACC	CAGTTGGTAA	ATGAAACCAG	145240	145140
	12749	AAATTATAGC	TGTACCACAG	AAAGGTGAAA	ACGTTTCTTT	TATAATTTCA	CATACAATCT	145300	\downarrow
	12751 12752 12753	TTAATGGACC	CAGTGTCCAA	CACATTAAAG	CAAGTGCTCA	GGAGTGACAT	CAAGATGTAA		hunters
	12754 12755	AAAATAGTCC	TGTCCTCAGG	GAGTTTAGGT	CTTGGAGAAA	AGAGACCCAA	GGAGACACAA	145420	M
	12756 12757	GACAAAGGGG	AAAGAGAAGG	AGCGCTGAAG	ACTGAGGACC	CTGCCTGTGG	ACTGAAGTGA	145480	starting
	12758	GGATGGGGAC	ACCCGATGCC	CGGAATATGA	CAGTTTGGAG	GGGCCTGAAG	GACTCTTCTA	145540	Dardy wil
									•
									line

Due to size of case, succeeding pages not included.

The the size of case, succeeding pages not included.

The hundring throughout Sequence



Notice of Availability of Checker Program

Applicant Aid for Biotechnology Computer Readable Form (CRF)
Sequence Listing Submissions

The Patent and Trademark Office (PTO) has developed a computer program, called Checker, that will aid applicants in identifying and correcting errors prior to making submissions for compliance with the Requirements for Patent Applications Containing Nucleotide Sequence and/or Amino Acid Sequence Disclosures (Sequence Rules: 37CRF 1.821 through 1.825).

Final rules were published in the Federal Register (55 FR18230) on May 1, 1990, and in the PTO Official Gazette (1114 Off.Gaz.PatOffice 29) on May 15, 1990.

Checker is a DOS-based software program that is intended to assist users in determining whether errors may be present in the sequence listings, and is not intended to guarantee that the submission is error-free.

The most current version of the software is available via computer downloading, details are below. Copies on diskette are also available. Updated software versions will not be automatically mailed out; any updates will be announced in the PTO Official Gazette.

The software can be accessed/requested from the following locations:

- Dial-up access through the Internet. Location is ftp://ftp.uspto.gov
 The software is in current directory: pub/checker/
 Download all the files. Cost: Free-of-charge
- 3) For diskette copies, mail to: U.S.P.T.O., OEIP, CRYSTAL PARK 3, SUITE 441 WASHINGTON DC 20231

COST FOR DISKETTE IS \$ 25.00 METHOD OF PAYMENT:

Check payable to Commissioner of Patents and Trademarks VISA/ Mastercard/ Charge- Charges can be faxed to 703-306-2737 PTO Deposit Account

For Further Information, Contact: Arti Shah at 703-308-4212

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 CFR 1.821 - 1.825 for the following reason(s):

1. This application clearly fails to comply with the requirements of 37 CFR 1.821
- 1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.
2. This application does not contain, as a separate part of the disclosure on
paper copy, a "Sequence Listing" as required by 37 CFR 1.821(c).
3. A copy of the "Sequence Listing" in computer readable form has not been
submitted as required by 37 CFR 1.821(e).
4. A copy of the "Sequence Listing" in computer readable form has been submitted.
However, the content of the computer readable form does not comply with the requirements of 37 CFR 1.822 and/or 1.823, as indicated on the attached copy of the marked-up "Raw Sequence Listing."
5. The computer readable form that has been filed with this application has been
found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A substitute computer readable form must be submitted as required by 37 CFR 1.825(d).
6. The paper copy of the "Sequence Listing" is not the same as the computer
r adable form of the "Sequence Listing" as required by 37 CFR 1.821(e).
L.J. 7.
Other:
Applicant must provide:
An initial or substitute computer readable form (CRF) copy of the "Sequence
corrected pages of the An initial or substitute paper copy of the "Sequence Listing", as well as an
amendment directing its entry into the specification
A statement that the content of the paper and computer readable copies are the same
and, where applicable, include no new matter, as required by 37 CFR 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d)
For questions regarding compliance with these requirements, please contact:
For Rules Interpretation, call (703) 308-1123
For CRF submission help, call (703) 308-4212 For PatentIn software help, call (703) 557-0400
AVA COLEMAN SOLUMBLE NEIDA GOIL LIVIL 37/50ADO

Please return a copy of this notice with your response.